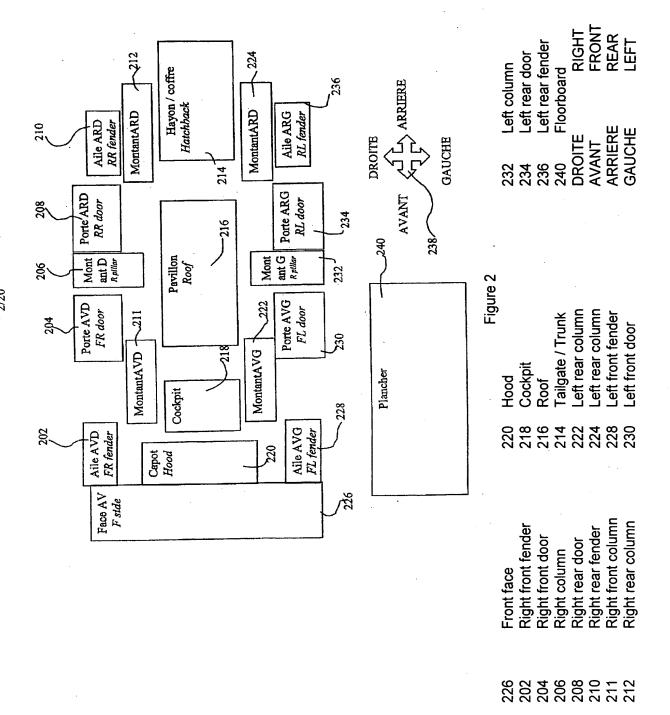


Figure 1

102	Specify the vehicle geometry	
104	Map the prohibited subzones	
106	Map the routing points and connectors, particularly between zones	
108	Map the electrical and electronic components	
110	Synthesis of the routing of signals	
112	Synthesis of the routing of power	
114	Synthesis of the routing of ground links	
116	Cost evaluation	
118	Quality evaluation	
120	Weight evaluation	



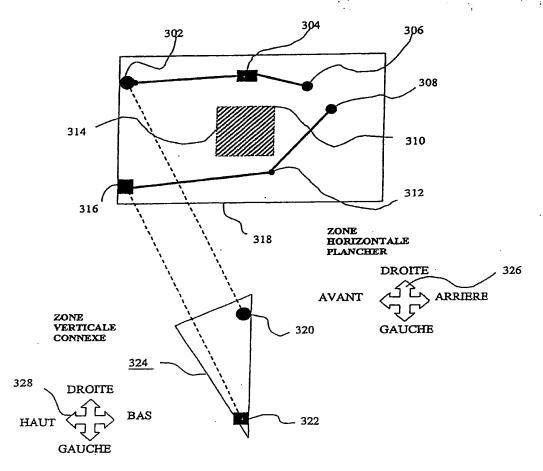


Figure 3

CONTIGUOUS VERTICAL ZONE		FLOORBOARD HORIZONTAL ZONE	
DROITE	RIGHT	DROITE	RIGHT
HAUT	TOP	AVANT	FRONT
GAUCHE	LEFT	GAUCHE	LEFT
BAS	BOTTOM	ARRIERE	BACK

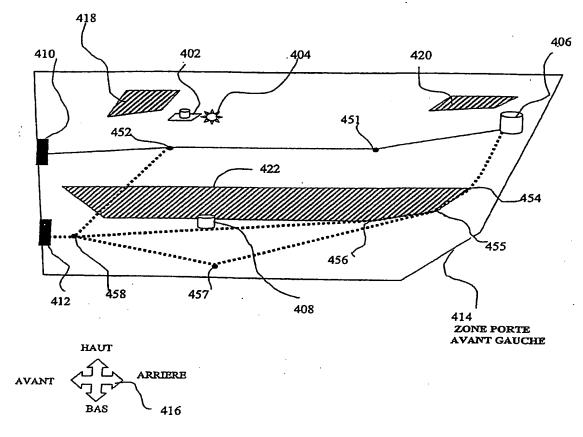


Figure 4

LEFT FRONT DOOR ZONE

HAUT

TOP

AVANT

FRONT

BAS

BOTTOM

ARRIERE

REAR

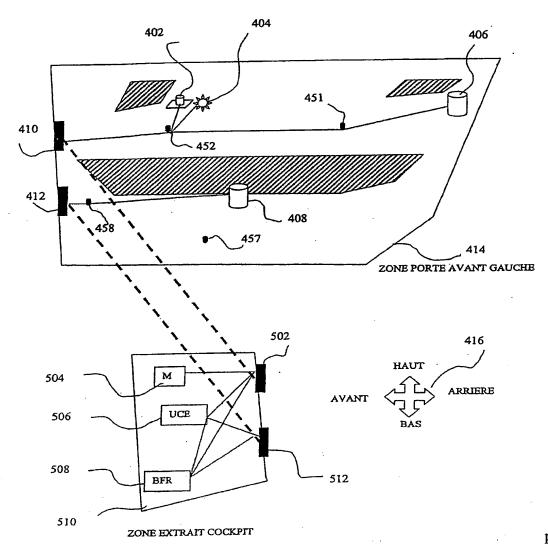


Figure 5

LEFT FRONT DOOR ZONE

504 506 510	Ground Electronic control unit Fuse and relay box	HAUT AVANT BAS ARRIERE	TOP FRONT BOTTOM REAR
	COCKPIT EXTRACT ZONE	711111111	

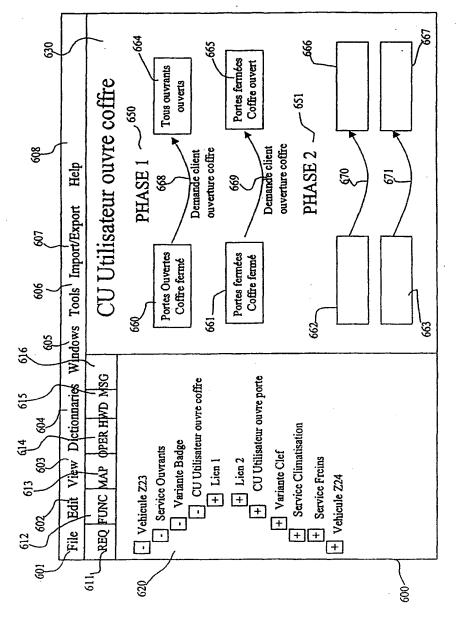


Figure 6 Use case: user opens trunk

Doors open, trunk closed	Client request to open trunk	All openings open	Doors closed, trunk closed	Client request to open trunk	Doore closed frunk open
099	899	664	661	699	865

Jse case: user opens trunk

Openings service

Vehicle Z23

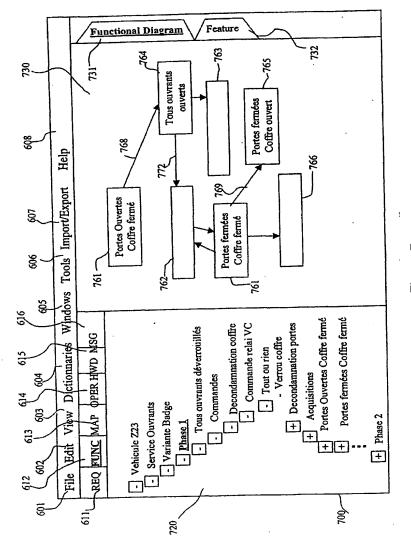
Badge variant

Use case: user opens door

Link 1 Link 2 Air-conditioning service

Key variant

Brake service Vehicle Z24



Doors open, trunk closed Figure 7

All openings open 761 764 761 765

Doors closed, trunk closed Doors closed, trunk open

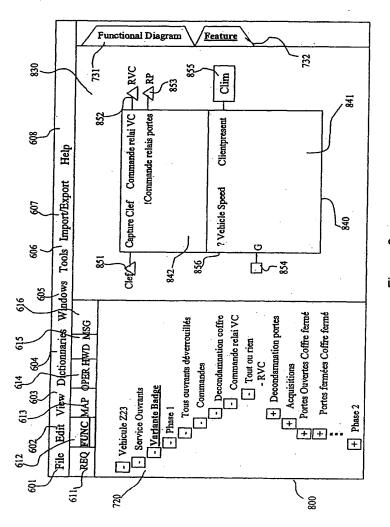
All openings unlocked

Openings service

Vehicle Z23

Sadge variant Phase 1

Trunk-lock relay instruction Doors closed, trunk closed Phase 2 Doors open, trunk closed All-or-nothing Unlatch doors Instructions Unlatch trunk - Trunk lock Acquisitions



Trunk-lock relay Door relay 851 852 853

Air conditioning 855

Commande ... = Trunk-lock relay instruction Capture ... = Key sensing

Door relay instruction

Trunk-lock relay instruction Unlatch trunk

All openings unlocked

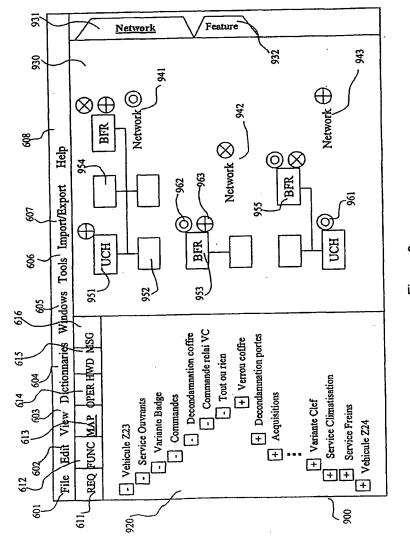
Instructions

Openings service

Vehicle Z23

Badge variant Phase 1 Acquisitions

Doors closed, trunk closed Phase 2 Doors open, trunk closed - Trunk-lock relay All-or-nothing Unlatch doors



UCH Passenger-compartment control unit BFR Fuse and relay box

> Instructions Unlatch trunk Trunk-lock relay instruction All-or-nothing Trunk lock Unlatch doors

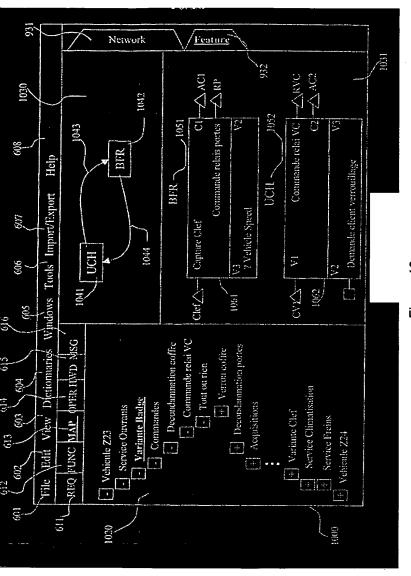
Openings service

Vehicle Z23

Badge variant

Key variant
Air-conditioning service
Brake service
Vehicle Z24

Acquisitions



Passenger-compartment control unit Fuse and relay box

Æ é Clef

Commande ... = Door relay instruction Capture ... = Key sensing

Trunk-lock relay instruction

Unlatch trunk

Openings service

Vehicle Z23

Badge variant

Instructions

All-or-nothing

Unlatch doors Trunk lock

Acquisitions

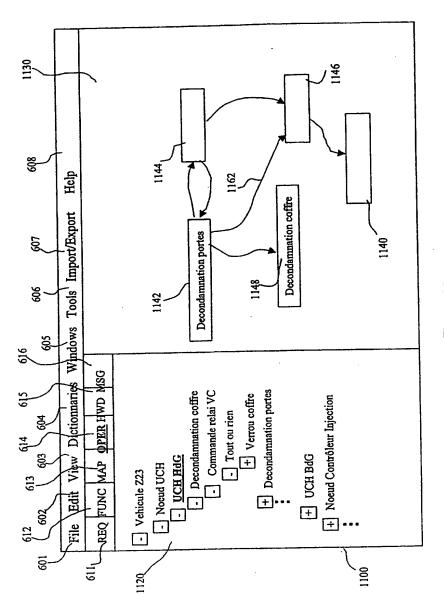
Key variant

Commande ... = Trunk-lock relay instruction Door relay

Demande ... Client request to lock RVC Trunk-lock relay

Air-conditioning service

Brake service Vehicle Z24



Passenger-compartment control-unit hdG
Passenger-compartment control-unit HdG
Unlatch trunk
1148
Unlatch trunk

Vehicle Z23

Unlatch frunk Trunk-lock relay instruction All-or-nothing Trunk lock

Trunk lock Unlatch doors

Passenger-compartment control-unit BdG Injection controller node

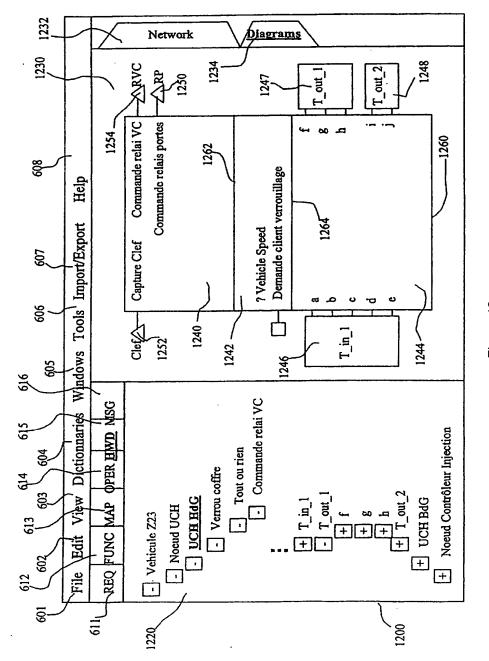


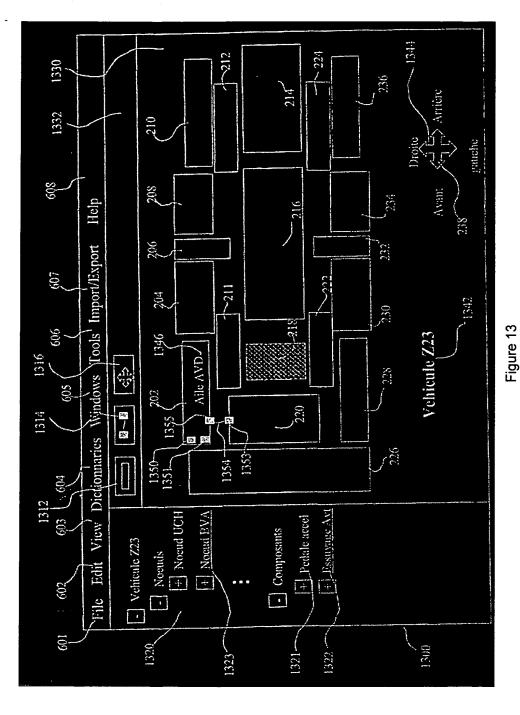
Figure 12

Vehicle Z23
Passenger-compartment control-unit node
Passenger-compartment control-unit HdG
Trunk lock

All-or-nothing
Trunk-lock relay instruction
Passenger-compartment control-unit BdG
Injection controller node

Clef Key
Capture ... = Key sensing
Commande ... = Trunk-lock relay instruction
RVC Trunk-lock relay

Commande ... = Door relay instruction RP Door relay Demande ... Client request to lock

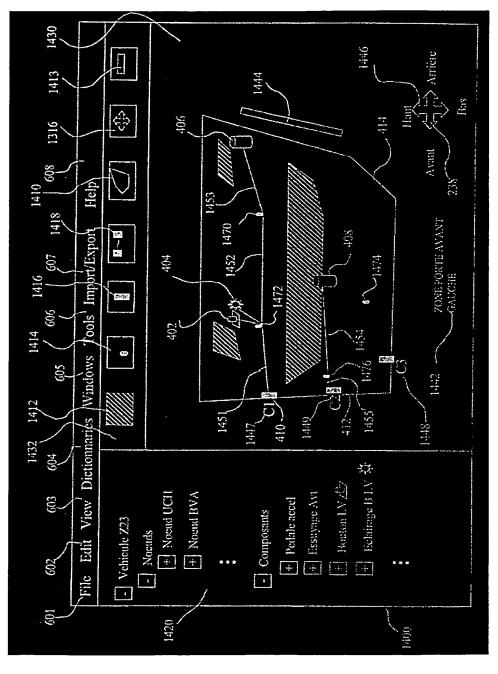


Right Left Right front fender Vehicle Z23 Front 1346 Passenger-compartment control-unit node BVA node Vehicle Z23

Nodes

Rear

Accelerator pedal Front wipers Components



LEFT FRONT DOOR ZONE

Nodes Passenger-compartment control-unit node BVA node

Vehicle Z23

Components

Rear Bottom д Д Front

> Front wipers Window lifter button Light of window lifter button Accelerator pedal

*.

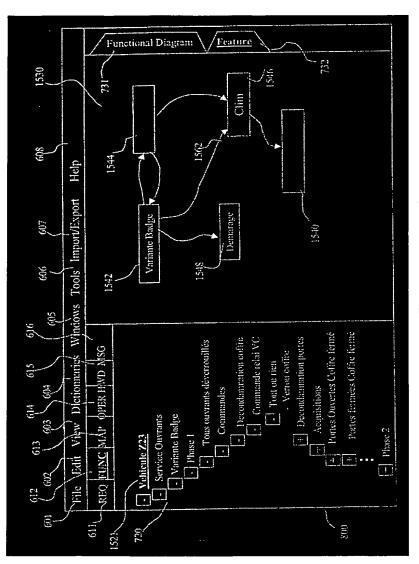


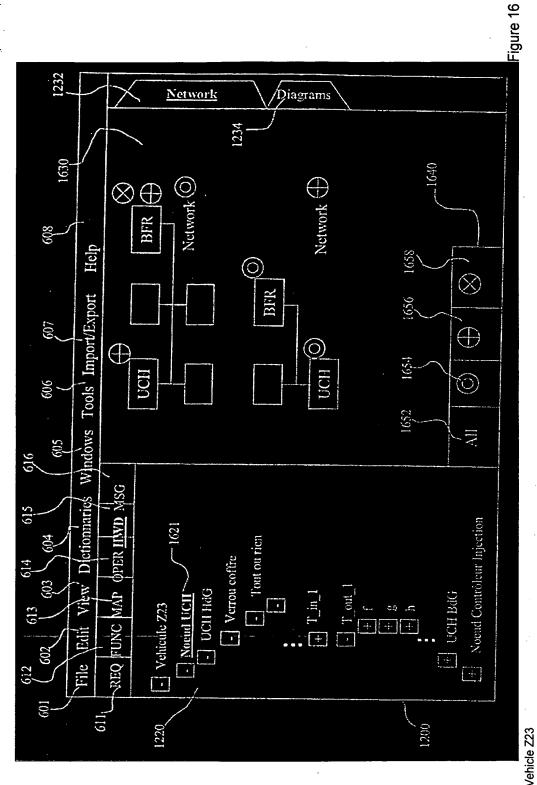
Figure 15

1542 Badge variant 1548 Starting 1546 Air conditioning

Openings service

Vehicle Z23

Badge variant
Phase 1
All openings unlocked
Instructions
Unlatch trunk
Trunk-lock relay instruction
All-or-nothing
- Trunk lock
Unlatch doors
Acquisitions
Doors open, trunk closed
Phase 2



1, (763) 413-3000 27/243W3 SHEET 16 OF 20

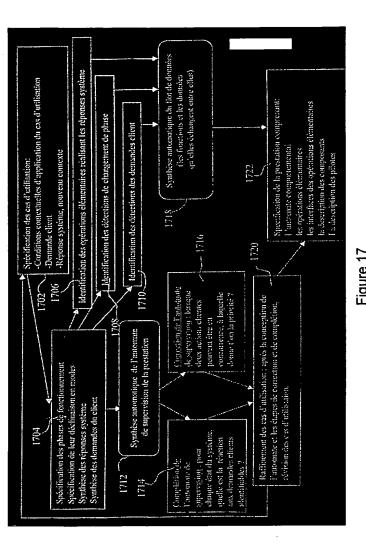
Passenger-compartment control-unit node Passenger-compartment control-unit HdG Trunk lock

All-or-nothing

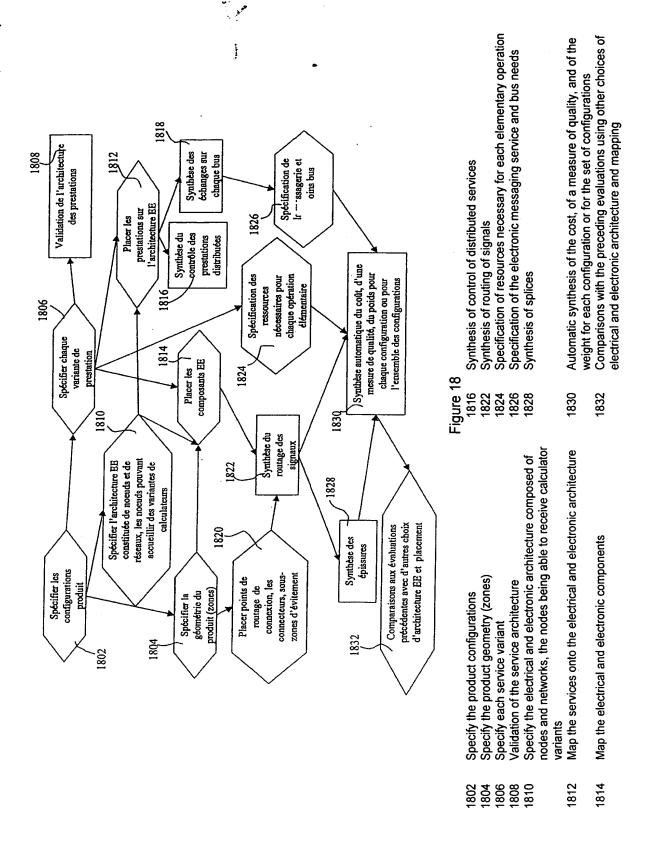
Passenger-compartment control-unit BdG

Injection controller node

Passenger-compartment control unit Fuse and relay box HR.



10 sheet <u>17 op 2-0</u>						10/53							3				
	Correction of the supervising automaton: when two client actions may be	competing, which is given priority?		Automatic synthesis of the data flow (the functions and the data that they	exchange with one other)			Refinement of use cases: after design of the automaton and the steps of	correction and supplementation, revision of use cases.	Specification of the service comprising:	the behavior automaton	the elementary operations	the interfaces of the elementary operations	the description of the components	the description of the drivers	4.	
rigure 17	1716			1718				1720		1722							
Ingli	Specification of use cases:	 Contextual conditions of application of the use case Client request 	- System response, new context	Specification of operating phases	Specification of their declinations in mode	Synthesis of system responses	Synthesis of client requests	Identification of elementary operations for executing the system	responses	Identification of detections of phase change		Identification of detections of client requests		Automatic synthesis of the automaton for supervision of the	service	Supplementation of the supervising automaton: for each system	state, what is the reaction to identifiable client requests?
	1702			1704				1706		1708		1710		1712		1714	



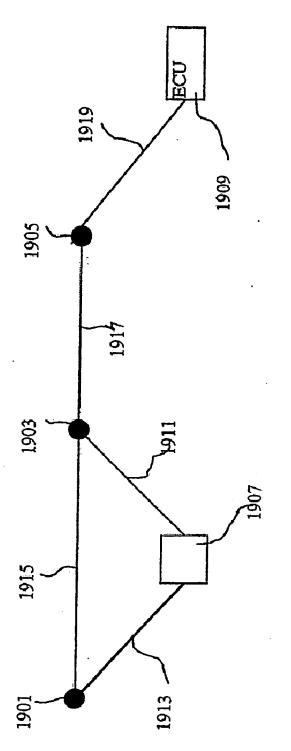


Figure 19

Fig. 20-d

